Consultancy service for Preparation of Detailed Project Report for Construction of Elevated Corridors

Bengaluru Smart Infrastructure Limited

Office of the Project Engineer-1, B-Smile, Room No.108,

1st Floor, Annexe-2 Building, N.R.Square, BBMP Bengaluru-560002

DRAFT DETAILED PROJECT REPORT

- **Construction of Split Flyover at MEI Junction on Tumkur road in front of RNS Shantinikethan (Length - 0.50 KM) under Engineering, Procurement & Construction (EPC) Mode on Lampsum, Turnkey with allowable Price Escalation including 10 years of maintenance**

Volume-III

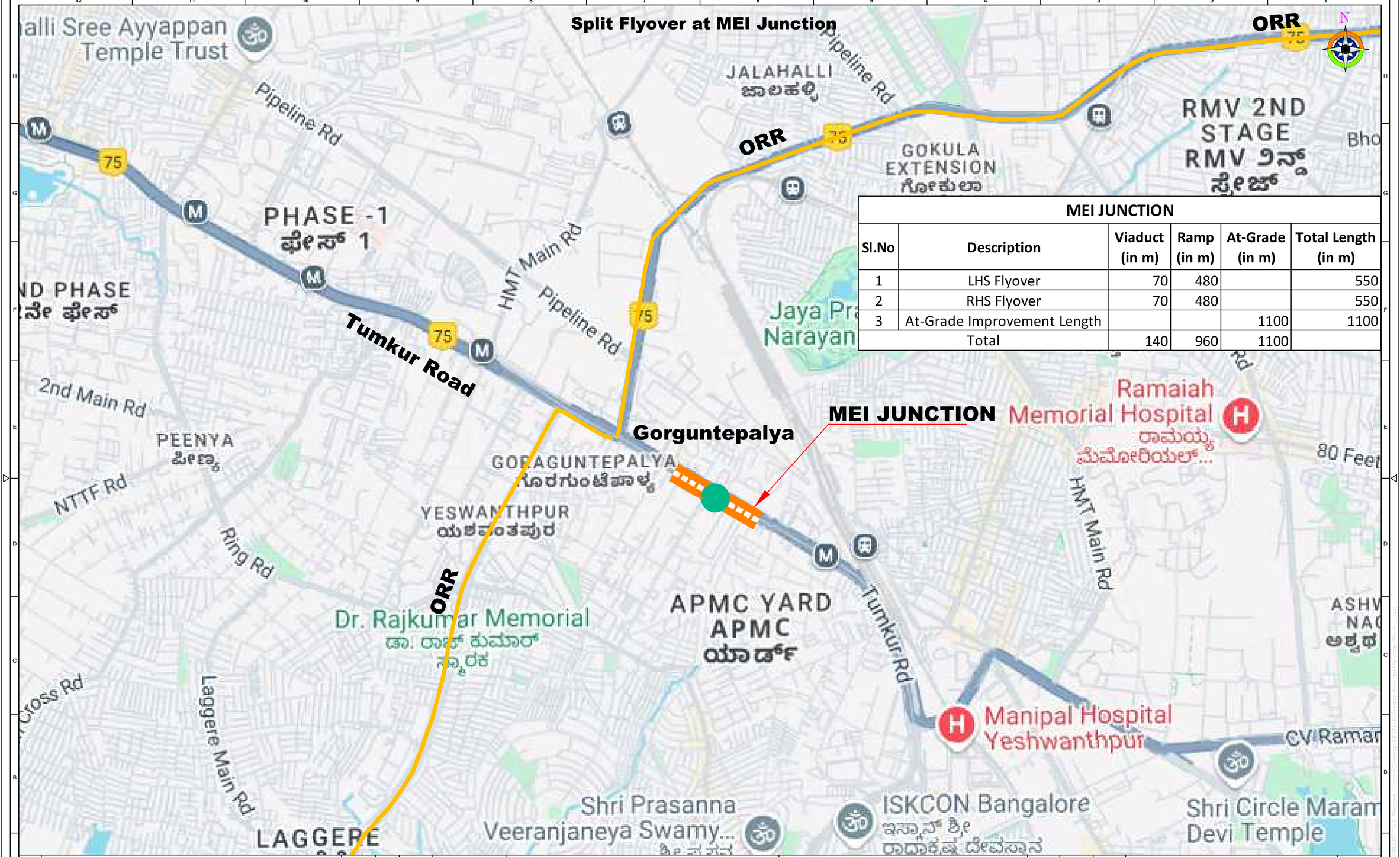
Drawings

Infra Support Engineering Consultants Pvt. Ltd

An ISO 9001-2015 Certified Company

*"**Infra House**", No. 456/11/1, Hennur Bande, Hennur - Bagalur Main Road, Kalyana Nagar, Bengaluru 560 043, ☎+91 91481 92837, info@infrasupport.in, www.infrasupport.in*

Split Flyover at MEI Junction



MEI JUNCTION					
Sl.No	Description	Viaduct (in m)	Ramp (in m)	At-Grade (in m)	Total Length (in m)
1	LHS Flyover	70	480		550
2	RHS Flyover	70	480		550
3	At-Grade Improvement Length			1100	1100
Total		140	960	1100	

SI NO.	DESCRIPTION	REVISION.	BY	DATE

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- [x] Feasibility Report
- [ ] Detailed Project Report
- [ ] TENDER

CLIENT :
Bengaluru Smart Infrastructure Limited
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Room No.108, 1st Floor, Annexe-2 Building,
N.R.Square, BBMP Bengaluru-560002

CONSULTANT:
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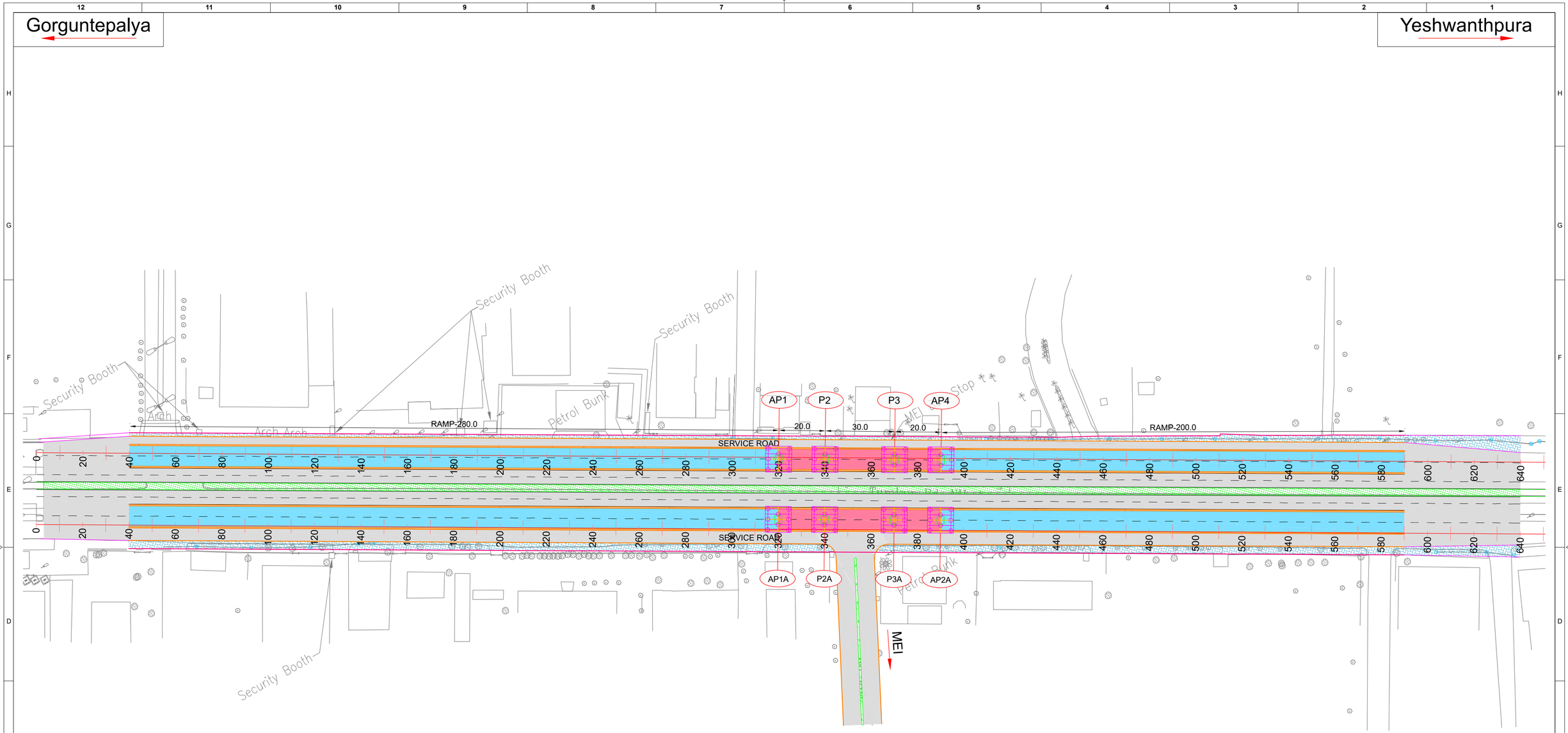
Hennur Bagalur Main Road, Kalyan Nagar,
Bangalore - 560 043.
Phone: +91 80 25421364
Email: info@infrasupport.in www.infrasupport.in

DRAWN	SK	PROJECT:	Construction of Split Flyover at MEI Junction on Tumkur road in front of RNS Shantinikethan (Length - 0.50 KM) under Engineering, Procurement & Construction (EPC) Mode on Lampsum, Turnkey with allowable Price Escalation including 10 years of maintenance
DESIGNED	NNK		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	ELEVATED CORRIDOR KEY MAP
SHEET	01 of 01	SCALE:	As shown

DRG. NO. : IS \ 2502 \ HIG \ KM - 001

JOB NO. 2502

REVISION R0



Elevated Plan

SI NO.	DESCRIPTION	REVISION.	BY	DATE

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- ▨ Draft Detailed Project Report
- ☐ Detailed Project Report
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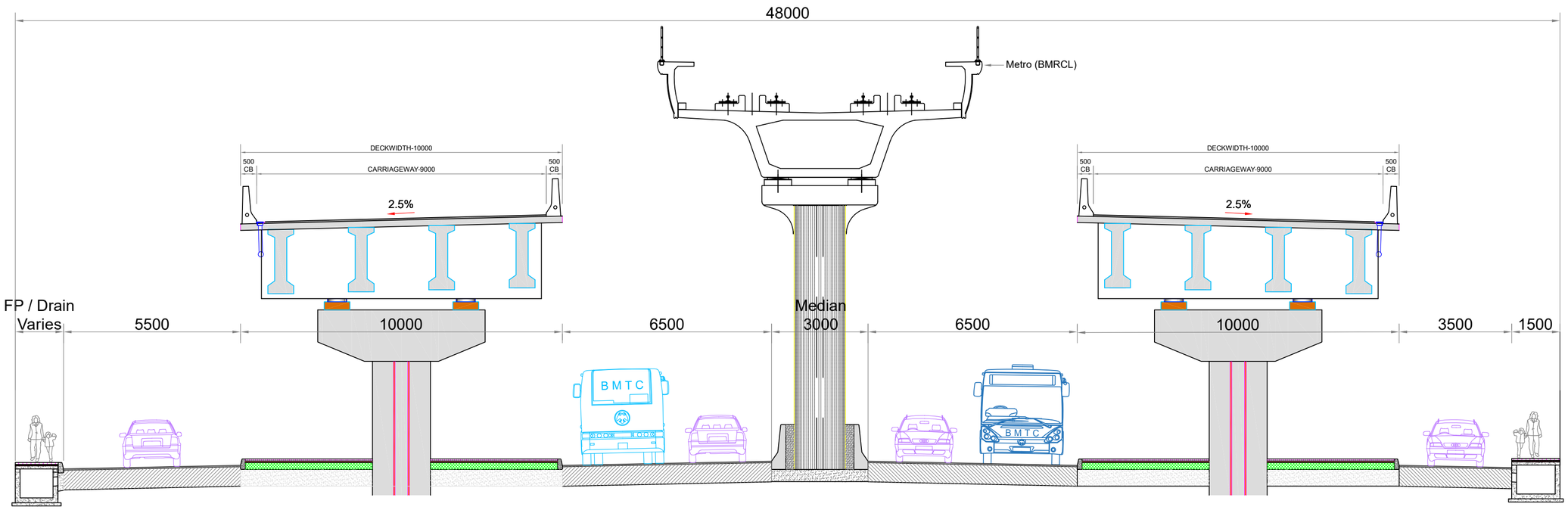
DESIGNED	NNK		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	Elevated Plan
SHEET	01 of 01	SCALE:	As shown

DRG. NO. : IS \ 2502 \ HIG \PL - 01

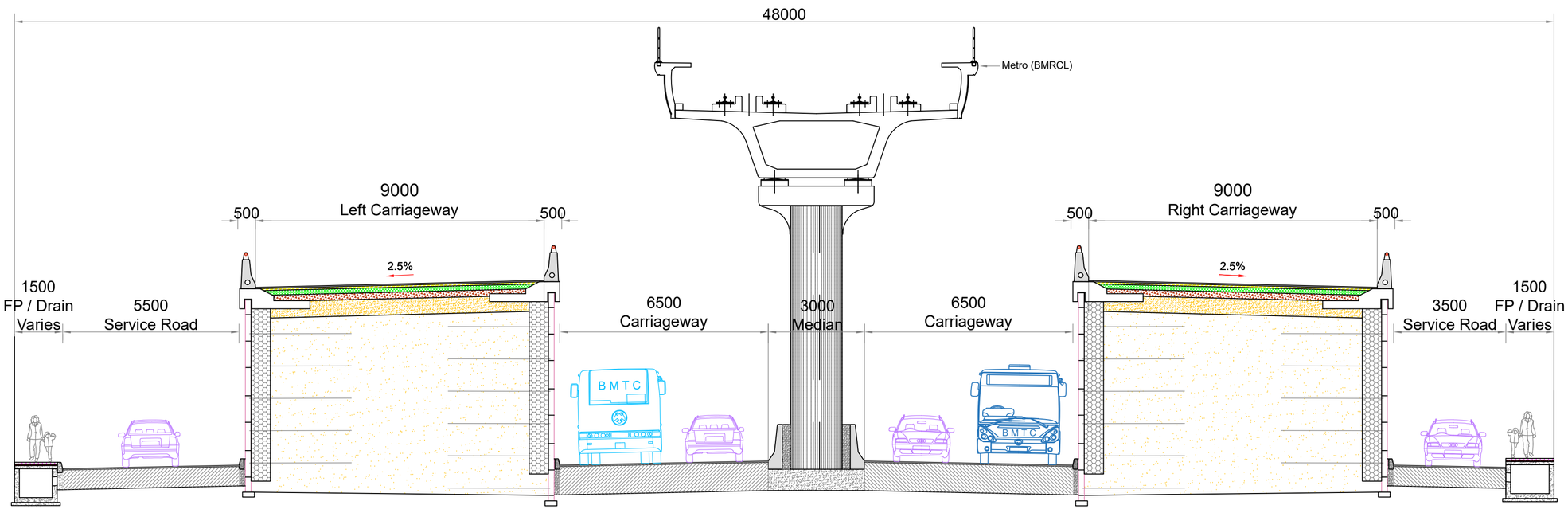
JOB NO. 2502

REVISION R0

\\10.68.2.201\Design\Project DATA PROJECT MD Elevated Corridor\Drawings\ Draft DPR\Title Sheet P1.dwg



TYPICAL CROSS SECTION - 01



TYPICAL CROSS SECTION - 02

SI NO.	DESCRIPTION	REVISION.	BY	DATE

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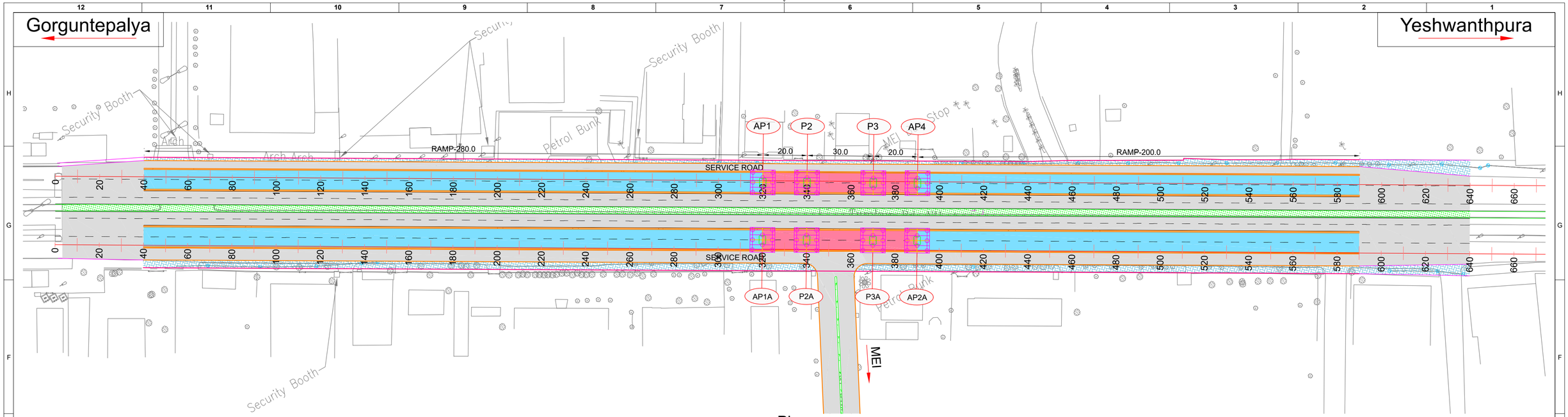
DESIGNED	NNK		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	Typical Cross-Section
SHEET	01 of 01	SCALE:	As shown

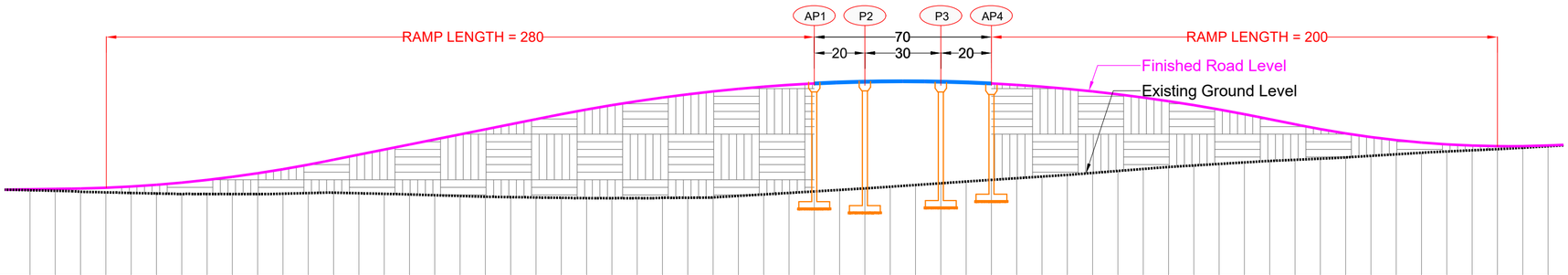
JOB NO. 2502

DRG. NO. : IS \ 2502 \ HIG \TCS- 01

REVISION R0



Plan



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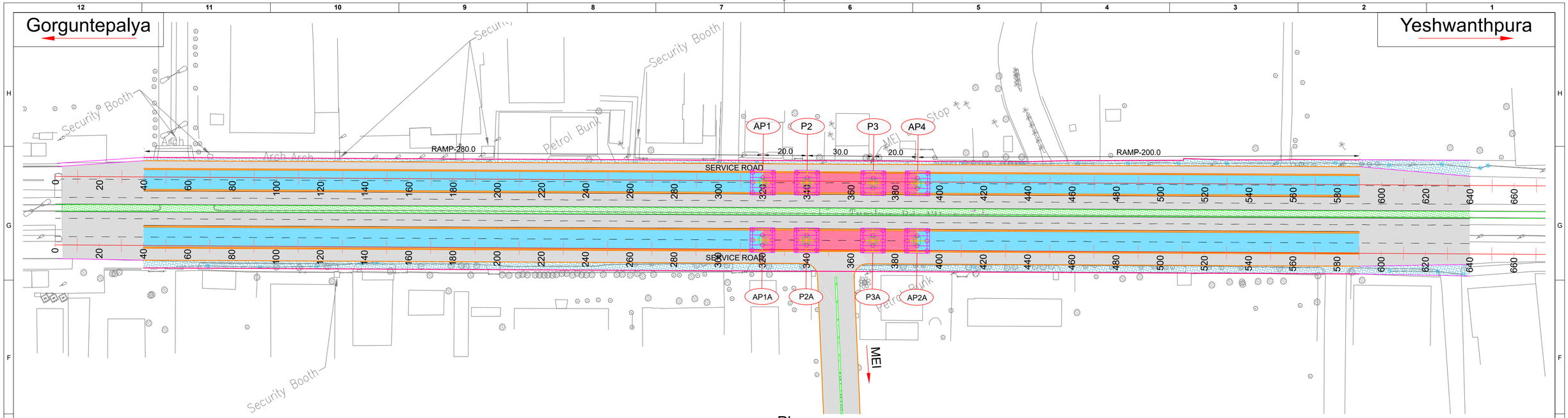
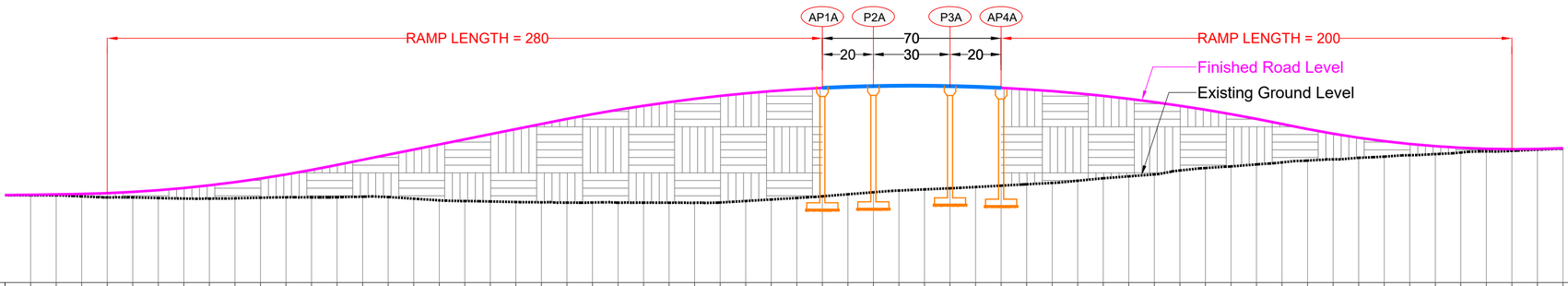


Plan



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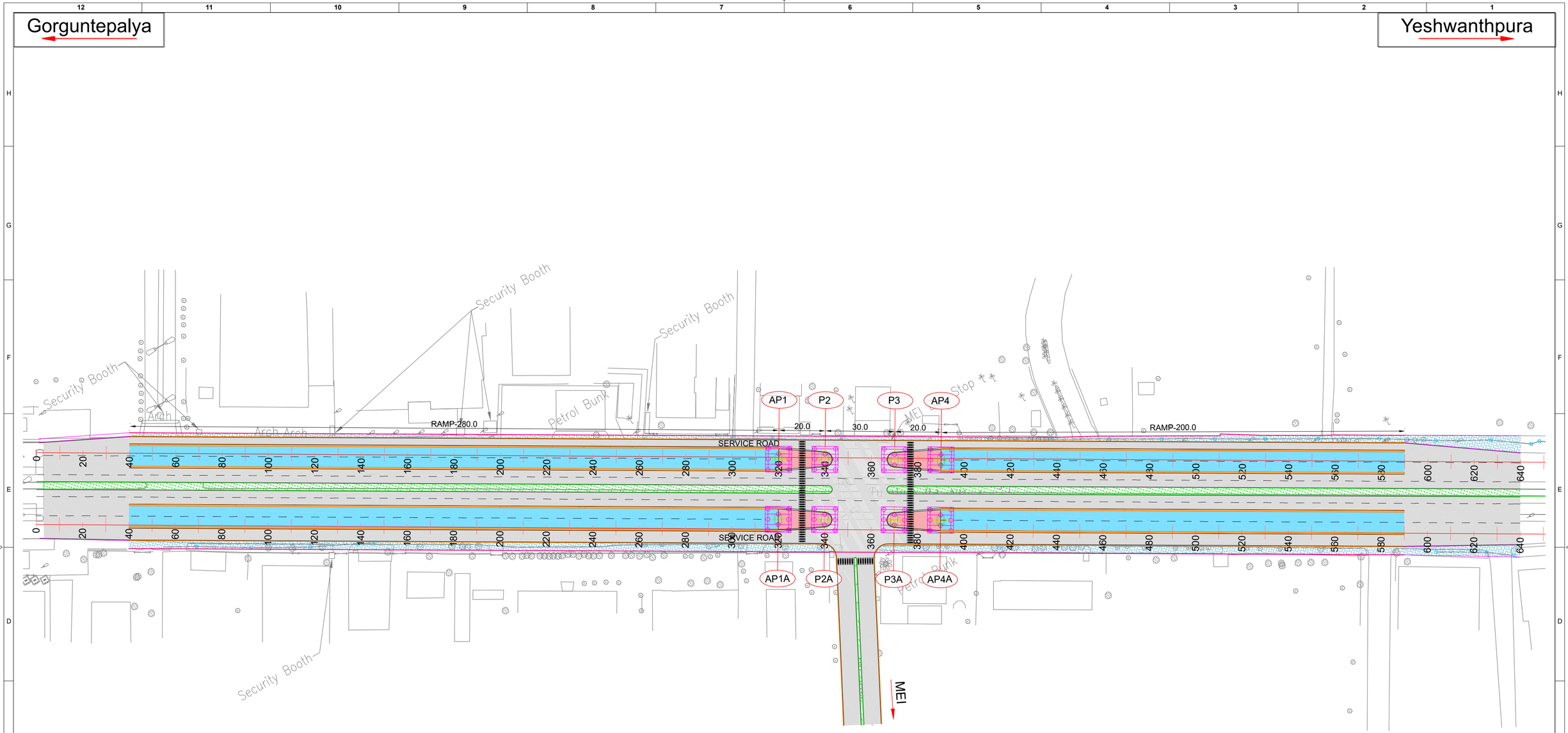

At-Grade Plan

SI NO.	DESCRIPTION	REVISION.	BY	DATE

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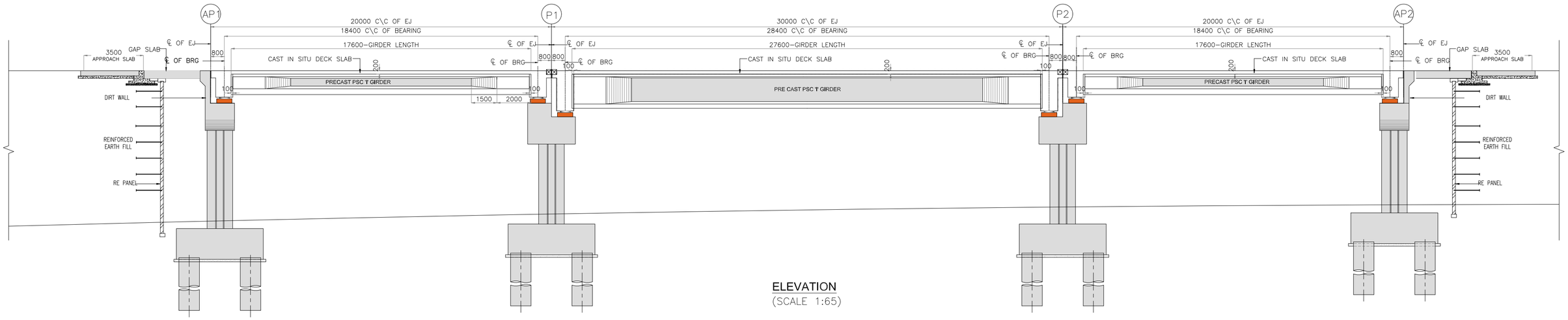
DESIGNED	NNK		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	At-Grade Plan
SHEET	01 of 01	SCALE:	As shown

DRG. NO. : IS \ 2502 \ HIG \ PL - 01

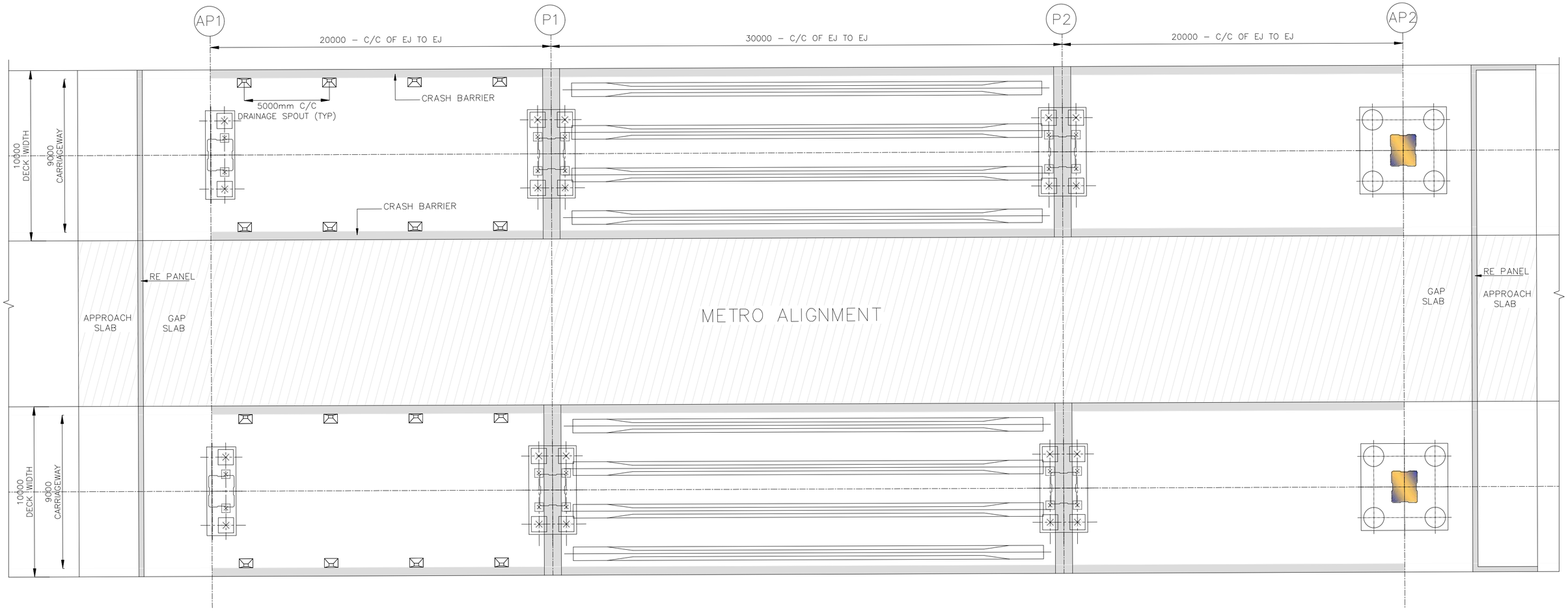
JOB NO. 2502

REVISION R0

\\10.68.2.21\Projects\Live Projects\BMRCL PROJECT\MD Emailed Content\Annexure-3 Draft Title Sheet.dwg



ELEVATION
(SCALE 1:65)



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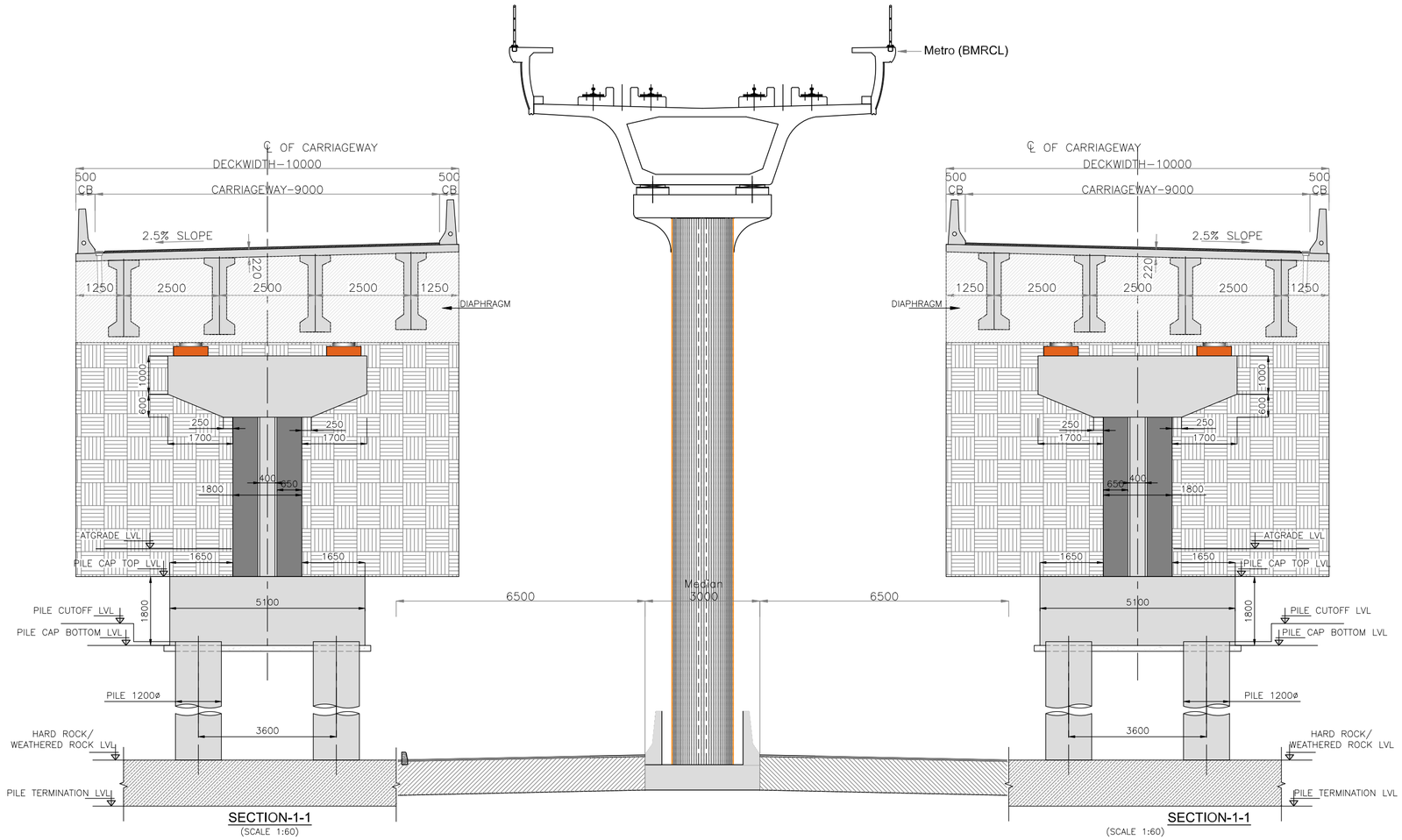
DRAWN	CDS	PROJECT:	Construction of Split Flyover at MEI Junction on Tumkur road in front of RNS Shantinikethan (Length - 0.50 KM) under Engineering, Procurement & Construction (EPC) Mode on Lampsum, Turnkey with allowable Price Escalation including 10 years of maintenance		JOB NO.
DESIGNED	RV				2502
CHECKED	TRL				
DATE	Aug - 2025	TITLE :	GENERAL ARRANGEMENT DRAWING OF SPLIT FLYOVER AT MEI JUNCTION		REVISION
SHEET	01 of 07	SCALE:	As shown	DRG. NO. : IS \ 2502 \ STR \GAD-01	R0

02_DETAILED CONSTRUCTION DRAWINGS\02_PKG-2\STRUCTURES\FLYOVER AT MEI JUNCTION\GAD\GAD-01 GENERAL ARRANGEMENT DRAWING OF SPLIT FLYOVER AT MEI JUNCTION.dwg



SECTION-1-1
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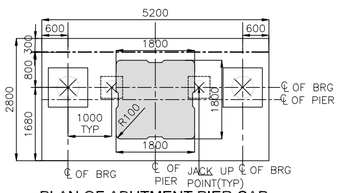
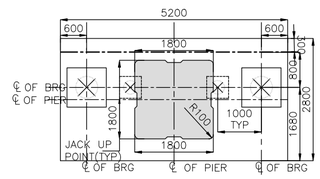
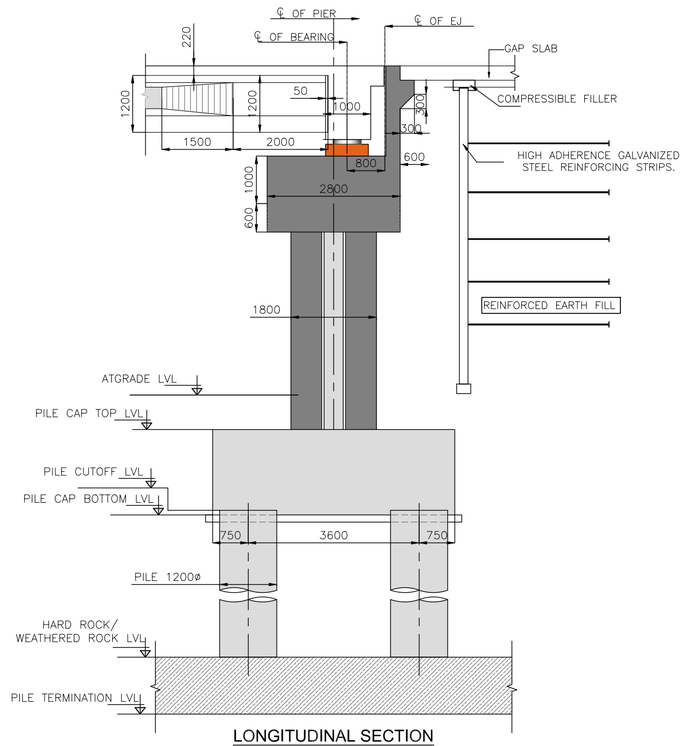


PLAN OF ABUTMENT PIER CAP
(SCALE 1:60)

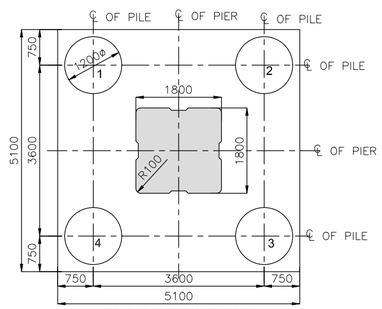
SECTION-1-1
(SCALE 1:60)



PLAN OF ABUTMENT PIER CAP
(SCALE 1:60)



LONGITUDINAL SECTION
OF ABUTMENT PIER
(SCALE 1:60)



PLAN OF PILE CAP
(SCALE 1:60)

SI NO.	DESCRIPTION	REVISION.	BY	DATE

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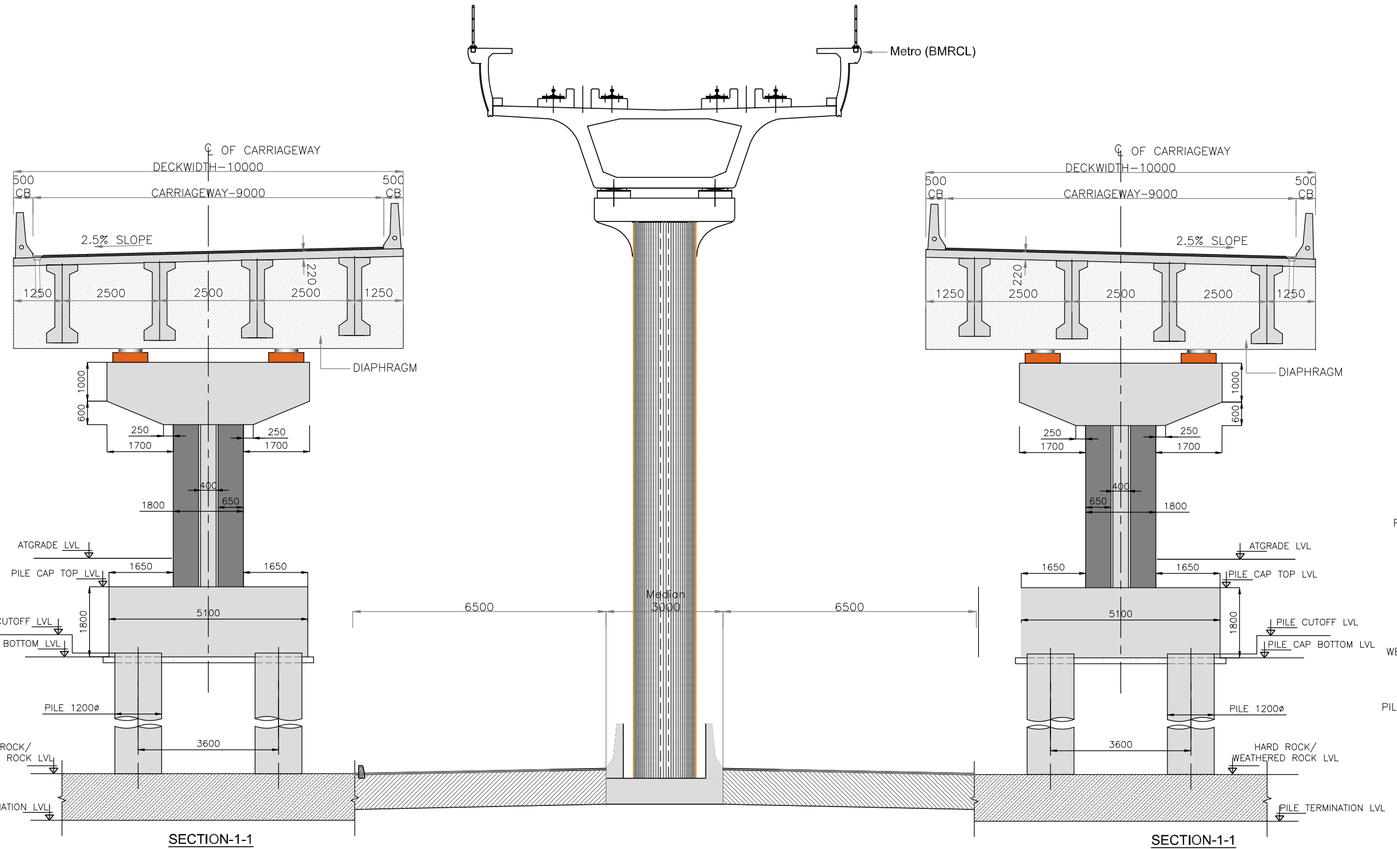
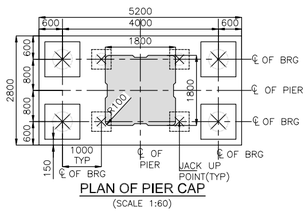
DESIGNED	RV		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	GENERAL ARRANGEMENT DRAWING OF SPLIT FLYOVER AT MIE JUNCTION
SHEET	02 of 07	SCALE:	As shown

JOB NO. 2502
DRG. NO. : IS \ 2502 \ STR \ GAD-1A
REVISION R0

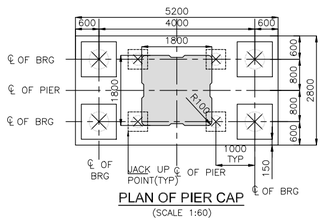


SECTION-1-1
(SCALE 1:60)

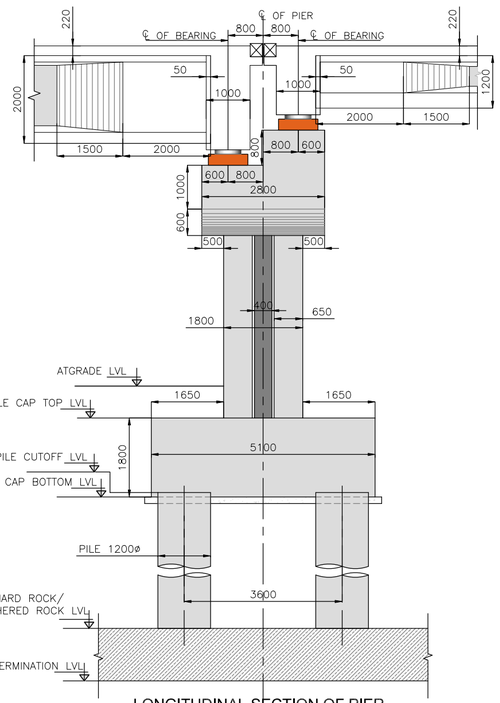
SECTION-1-1
(SCALE 1:60)



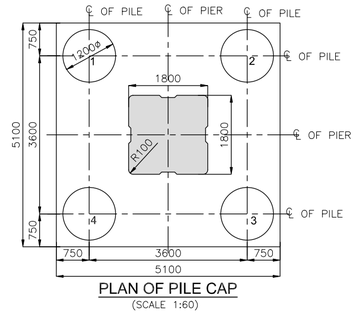
PLAN OF PIER CAP
(SCALE 1:60)



PLAN OF PIER CAP
(SCALE 1:60)



LONGITUDINAL SECTION OF PIER
(SCALE 1:60)



PLAN OF PILE CAP
(SCALE 1:60)

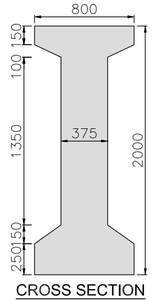
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER, UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS.
4. SEISMIC ZONE: II
5. CONDITION OF EXPOSURE – 'MODERATE'.
6. POT CUM PTFE BEARING SHALL CONFIRM TO IRC 83–PART III
7. THE CROSS CAMBER OF 2.5% IS PROPOSED IN THE DECK SYSTEM.
8. ALL DESIGN MIX CONCRETE SHALL CONFORM TO TABLE 6.4 AND Cl.18.5.4 OF IRC: 112–2020.
9. CONTRACTOR SHALL BE REVERIFY THE LEVELS INDICATED IN THE DRAWING IN CASE OF ANY CHANGES IN LEVELS ,SAME SHALL BE COMMUNICATED WITH WITH CONSULTANT BEFORE EXECUTION .
10. IF ANY AMBIGUITY IS FOUND IN DRAWINGS OR AT SITE, THE SAME SHALL BE BROUGHT TO DESIGNER'S/ ENGINEER'S NOTICE BEFORE EXECUTION.
11. REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE Fe500/Fe550 CONFORMING TO IS:1786–2008
12. GRADE OF CONCRETE SHALL BE AS FOLLOWS:

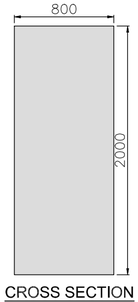
LEVELING COURSE :	: PCC M15
DECK SLAB (AP1&AP2)	: RCC M55
DECK SLAB (P1&P2)	: RCC M55
PRE CAST RCC 'I' GIRDER	: RCC M55
PRE CAST PSC 'I' GIRDER	: RCC M55
FOUNDATION	: RCC M35
PIER	: RCC M35
PIER CAP	: RCC M35
CRASH BARRIER	: RCC M40
PEDESTAL	: RCC M40
END DIAPHRAGM (AP1 TO P1)	: RCC M55

13. CLEAR COVER TO ALL REINFORCEMENT SHALL BE:
FOUNDATION : 75 mm
PIER : 40 mm
PIER CAP : 40 mm
RCC 'I' Girder : 40 mm
14. FOUNDATION COORDINATES SHOULD BE CHECKED AND CONFIRMED AT SITE BEFORE CASTING OF PILES.
15. THE NOMINAL MAXIMUM SIZE OF AGGREGATE TO BE USED SHALL BE 20mm.
16. IN CASE OF ANY DEVIATION IS OBSERVED DURING THE FOUNDATION, THE SAME SHOULD BE BROUGHT TO THE NOTICE OF DESIGNER AND ENGINEER FOR NECESSARY ACTION/ AMENDMENTS BEFORE EXECUTION.
17. THE DESIGNS HAVE BEEN DONE FOR,70R WHEELED AND CLASS A LIVE LOADS ACCORDING TO TABLE 6A ,S.NO–4 OF IRC:6–2020 . THE GOVERNING LOAD CASES HAVE BEEN TAKEN INTO CONSIDERATION FOR DESIGN .
18. STRIP SEAL EXPANSION JOINT 40MM WIDE.

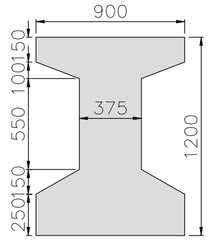
SPECIFICATIONS:
1. PRECAST PSC GIRDER, CAST IN SITU RCC DECK SLAB AND END DIAPHRAGM
2. CRASH BARRIER IN VIBRATED RCC M40 (DESIGN MIX).
3. MASTIC WITH ASPHALT (WEARING COAT).
4. GI DRAINAGE SPOUT 100mm DIA.



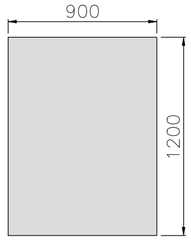
CROSS SECTION @ MID
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



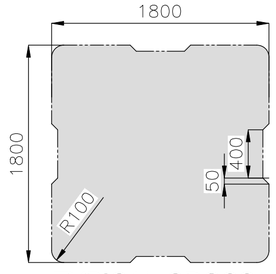
CROSS SECTION @ END
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



CROSS SECTION @ MID
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



CROSS SECTION @ END
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



TYPICAL CROSS SECTION OF PIER
(SCALE 1:50)

SI NO.	DESCRIPTION	REVISION.	BY	DATE

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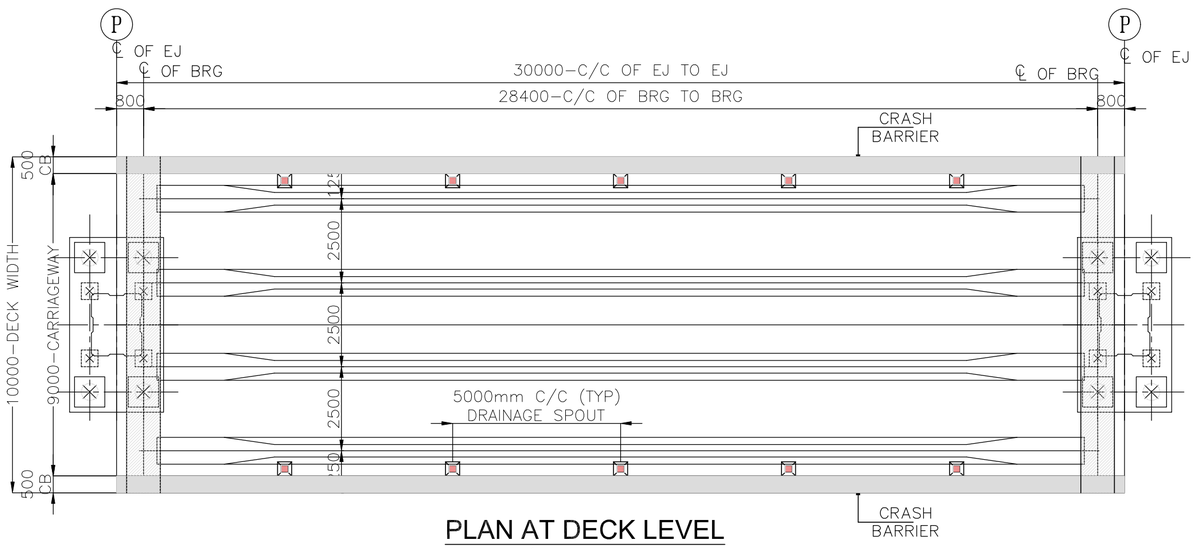
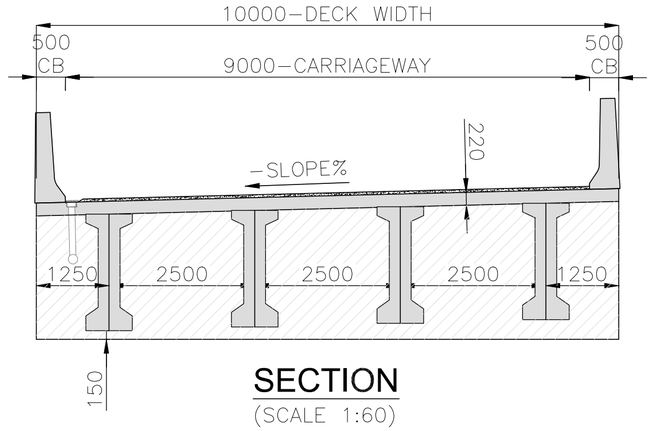
DRAWN	CDS	PROJECT:	Construction of Split Flyover at MEI Junction on Tumkur road in front of RNS Shantinikethan (Length - 0.50 KM) under Engineering, Procurement & Construction (EPC) Mode on Lampsum, Turnkey with allowable Price Escalation including 10 years of maintenance
DESIGNED	RV		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	GENERAL ARRANGEMENT DRAWING OF SPLIT FLYOVER AT MIE JUNCTION
SHEET	03 of 07	SCALE:	As shown

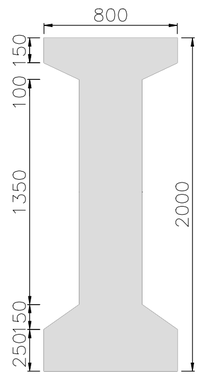
JOB NO. 2502
REVISION R0
DRG. NO. : IS \ 2502 \ STR \ GAD-1B



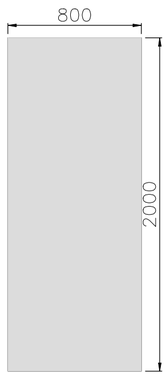
PLAN AT DECK LEVEL
(SCALE 1:60)



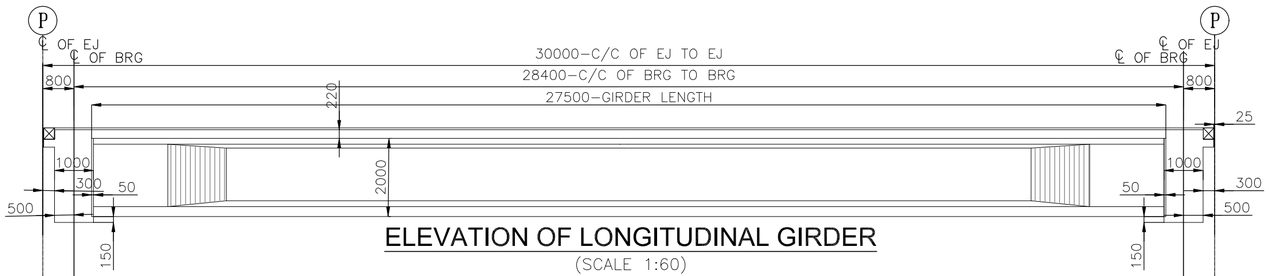
SECTION
(SCALE 1:60)



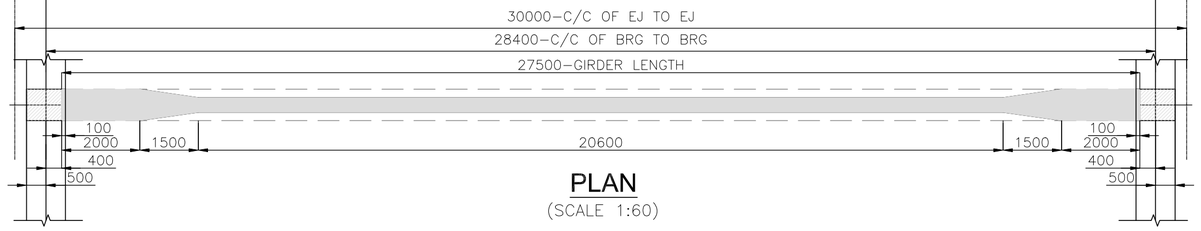
CROSS SECTION @ MID
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



CROSS SECTION @ END
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



ELEVATION OF LONGITUDINAL GIRDER
(SCALE 1:60)



PLAN
(SCALE 1:60)

SI NO.	DESCRIPTION	REVISION.	BY	DATE

RELEASED FOR
- ☒ Draft Detailed Project Report
- ☐ Detailed Project Report
- ☐ TENDER

CLIENT :
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Office of the Project Engineer-1, B-Smile,
Room No.108, 1st Floor, Annexe-2 Building,
N.R.Square, BBMP Bengaluru-560002

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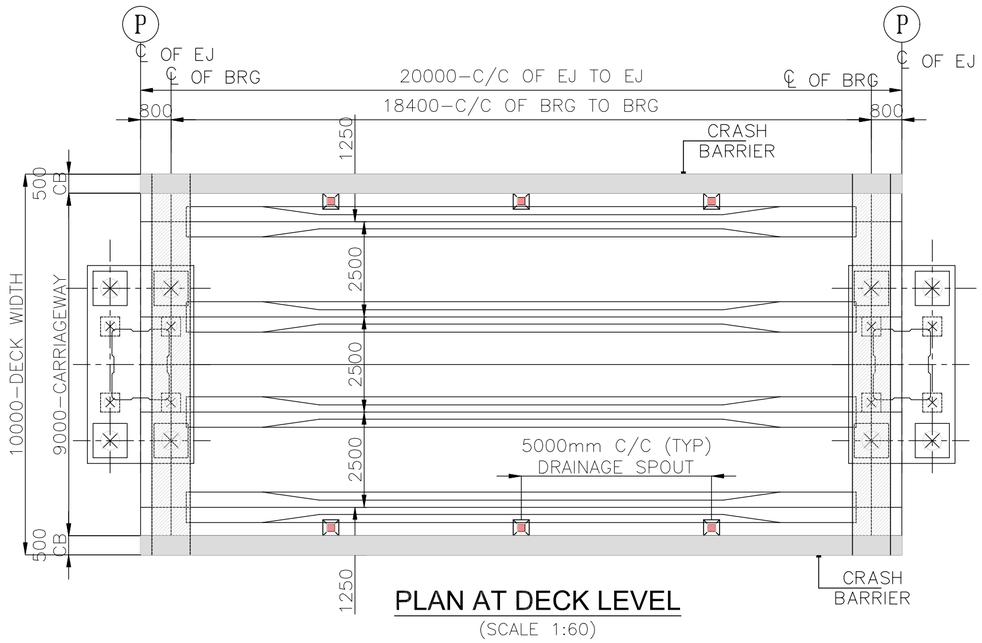
DESIGNED	RV		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	SUPER STRUCTURE DRAWING FOR 30M SPAN
SHEET	04 of 07	SCALE:	As shown

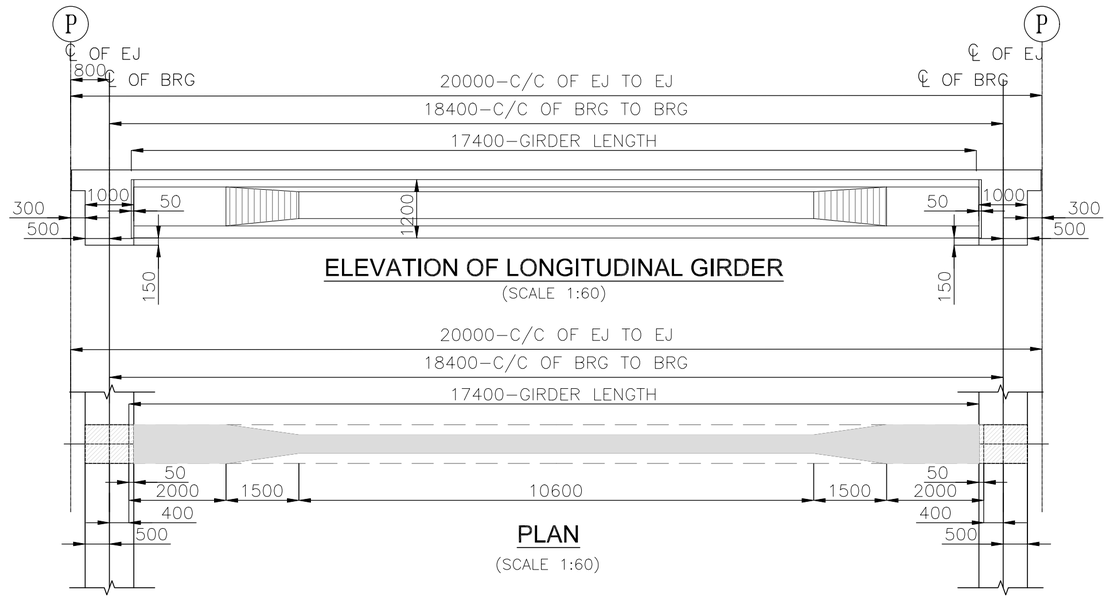
DRG. NO. : IS \ 2502 \ STR \ GAD-1C

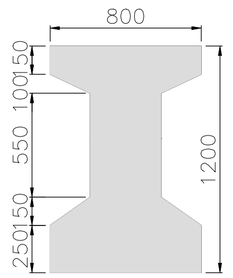
JOB NO. 2502

REVISION R0

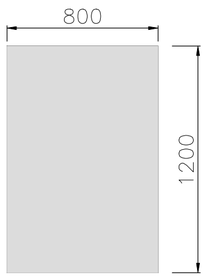


PLAN AT DECK LEVEL
(SCALE 1:60)

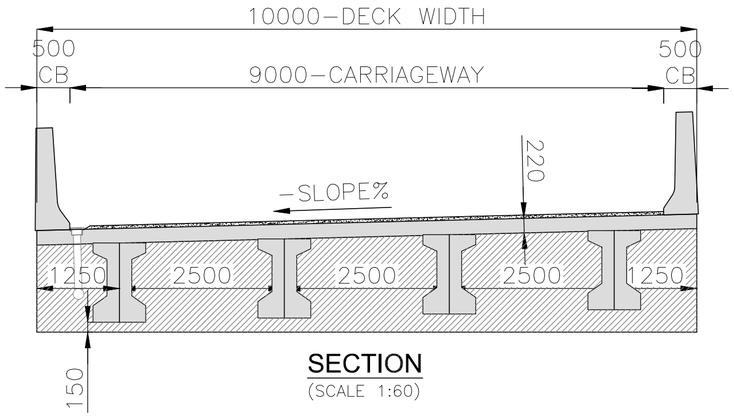




CROSS SECTION @ MID
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



CROSS SECTION @ END
(PRE CAST PSC 'I' GIRDER)
(SCALE 1:25)



SECTION
(SCALE 1:60)

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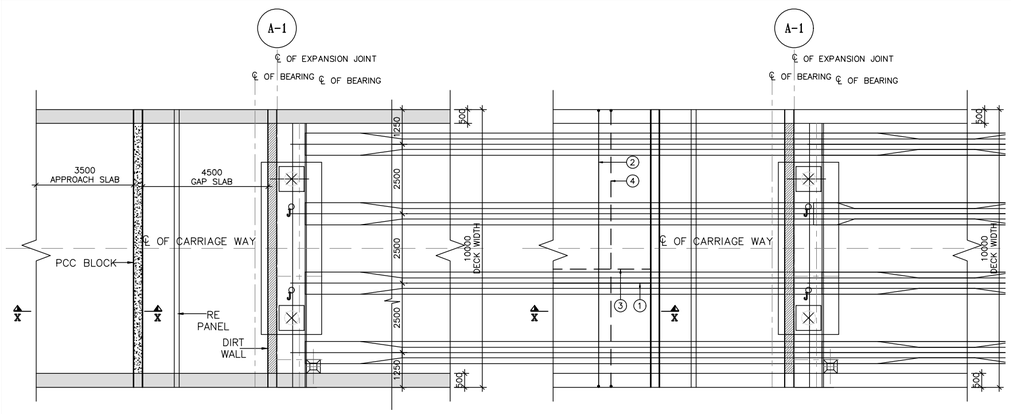
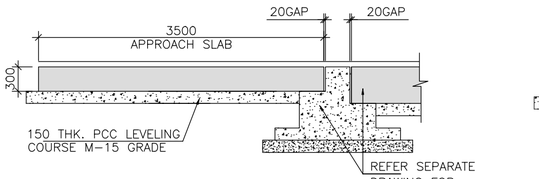
DESIGNED	RV		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	SUPER STRUCTURE DRAWING FOR 20M SPAN
SHEET	05 of 07	SCALE:	As shown

DRG. NO. : IS \ 2502 \ STR \ GAD-1D

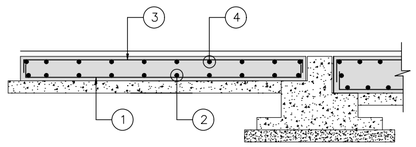
JOB NO. 2502

REVISION R0

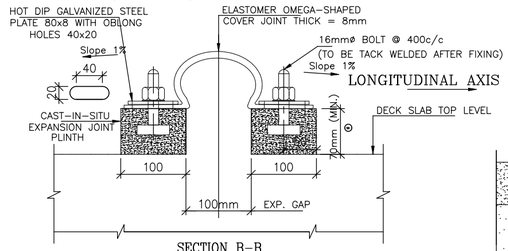




SECTION X-X
(CONCRETE DIMENSION)
(SCALE 1:50)

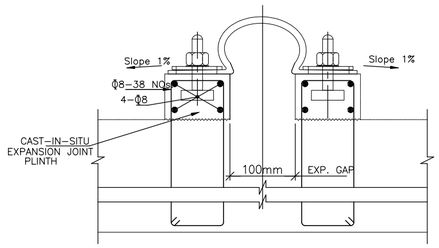


SECTION X-X
(REINFORCEMENT DETAILS)
(SCALE 1:50)

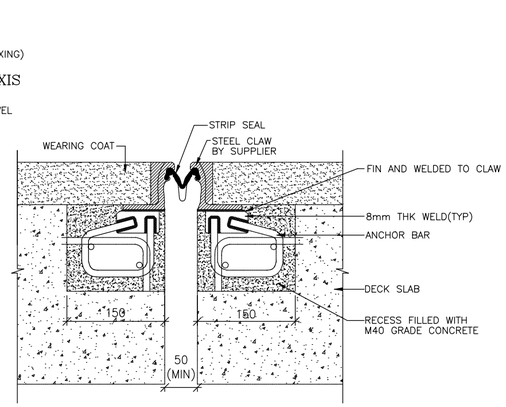


SECTION B-B
(DIMENSION DETAIL)
(SCALE 1:5)

⊛ - AS PER VENDOR'S RECOMMENDATION.

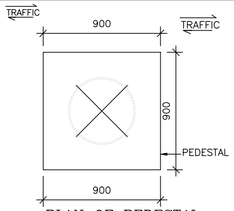


SECTION B-B
(REINFORCEMENT DETAIL)
(SCALE 1:5)

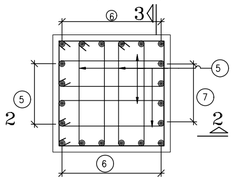


EXPANSION JOINT (FOR BRIDGE UP AND DOWN RAMPS)

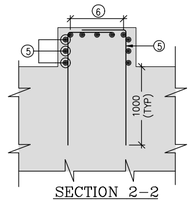
(STRIP SEAL TYPE)
(SCALE 1:5)



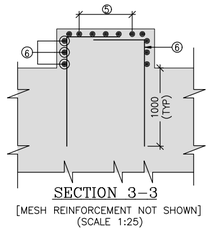
PLAN OF PEDESTAL
(SCALE 1:25)



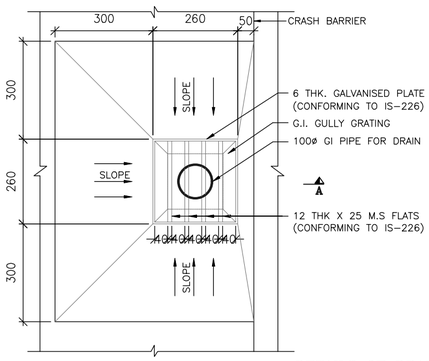
PLAN AT PEDESTAL TOP
(SCALE 1:25)



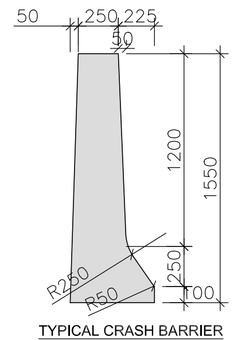
SECTION 2-2
[MESH REINFORCEMENT NOT SHOWN]
(SCALE 1:25)



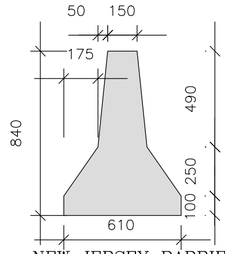
SECTION 3-3
[MESH REINFORCEMENT NOT SHOWN]
(SCALE 1:25)



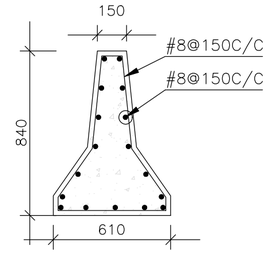
PLAN



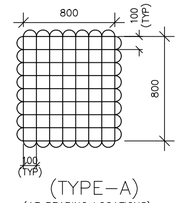
TYPICAL CRASH BARRIER
(SCALE 1:30)



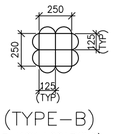
NEW JERSEY BARRIER



REINFORCEMENT DETAILS

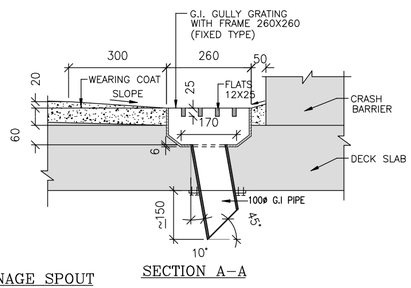


(TYPE-A)
(AT BEARING LOCATIONS)
(SCALE 1:25)

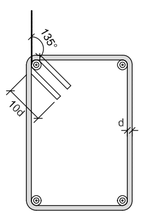


(TYPE-B)
(AT JACK LOCATIONS)
(SCALE 1:25)

℄8 MESH REINFORCEMENT DETAILS
[IN TWO LAYERS ONE AT 20 FROM TOP AND ANOTHER AT 100 FROM TOP]
(SCALE 1:25)



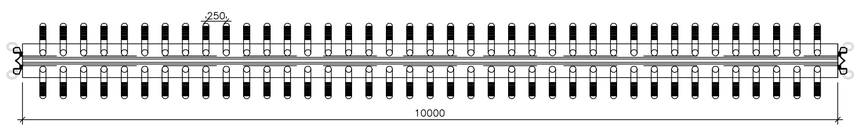
SECTION A-A



TYPICAL DETAIL OF
HOOK IN CLOSED TIES
(d-DIAMETER OF BAR)
(Scale: 1:20)

SCHEDULE OF REINFORCEMENT

BAR NO,	①	②	③	④	⑤	⑥	⑦
BAR SHAPE	150	150	150	150 150			
REINFORCEMENT	℄12@150c/c	12@150c/c	12@150c/c	℄12@150c/c	℄16 -6NOS	℄16 -6NOS	℄10 - 3NOS



PLAN OF EXPANSION JOINT
(SCALE 1:40)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL LEVELS AND CHAINAGES ARE IN 'm'.
3. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
4. GRADE OF CONCRETE
   - A. APPROACH SLAB -M30
   - B. CRASH BARRIER -M40
   - C. PEDESTAL -M40
   - D. PCC -M15
   - E. KERB -M40
   - F. GAP SLAB -M35
5. FOR APPROACH DETAILS REFER SEPARATE DRAWING IN THE DRAWING IN CASE OF ANY CHANGES IN LEVELS ,SAME
6. CONTRACTOR SHALL BE RE-VERIFY THE LEVELS INDICATED SHALL BE COMMUNICATED WITH CONSULTANT BEFORE EXECUTION .
7. THE DESIGNS HAVE BEEN DONE FOR ,70R WHEELED & CLASS A LIVE LOADS FOR COMBINATIONS ACCORDING TO IRC:6-2017 TABLE NO-6A S.NO-4 AND THE GOVERNING CASES FOR DESIGN HAVE BEEN TAKEN INTO CONSIDERATION.

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DESIGNED	RV		
CHECKED	TRL		
DATE	Aug - 2025	TITLE :	MISCELLANEOUS DETAILS,PEDESTAL DETAILS,CRASH BARRIER & APPROACH SLAB
SHEET	06 of 07	SCALE:	As shown

JOB NO. 2502
DRG. NO. : IS \ 2502 \ STR \GAD-1E
REVISION R0

LHS

Sl. No.	Chainage	Pier Number	Span Configuration	FRL	EGL	Pile Cap Top Level	Pile Cap depth	Pile Cap Bottom	Pile Termination Level
	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)
1	0+320	AP1		916.225	907.695	907.195	1.8	905.395	882.70
2	0+340	P2	20.00	916.368	907.936	907.436	1.8	905.636	882.94
3	0+370	P3	30.00	916.368	908.338	907.838	1.8	906.038	883.34
4	0+390	AP2	20.00	916.225	908.608	908.108	1.8	906.308	883.61

RHS

Sl. No.	Chainage	Pier Number	Span Configuration	FRL	EGL	Pile Cap Top Level	Pile Cap depth	Pile Cap Bottom	Pile Termination Level
	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)	(in m)
1	0+320	AP1		916.225	907.741	907.241	1.8	905.441	882.74
2	0+340	P2	20.00	916.368	908.058	907.558	1.8	905.758	883.06
3	0+370	P3	30.00	916.368	908.370	907.870	1.8	906.070	883.37
4	0+390	AP2	20.00	916.225	908.575	908.075	1.8	906.275	883.58

Sl NO.	DESCRIPTION	REVISION.	BY	DATE

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- [ ] Detailed Project Report
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DESIGNED	RV		
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DATE	Aug - 2025	TITLE :	MISCELLANEOUS DETAILS,PEDESTAL DETAILS,CRASH BARRIER & APPROACH SLAB
SHEET	07 of 07	SCALE:	As shown
		DRG. NO. :	IS \ 2502 \ STR \GAD-1F

JOB NO. 2502

REVISION R0